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Jul 11, 2001

DERWENT-ACC-NO: 2000-208991

DERWENT-WEEK: 200140

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TITLE: Optical waveguide for frequency doubling of parametric systems, comprises directly bonded laminas of optical material

INVENTOR: GAWITH, C B E; HANNA, D C ; ROSS, G W ; SHEPHERD, D P ; SMITH, P G R ; SHEPHERD, D

PATENT-ASSIGNEE:

ASSIGNEE

UNIV SOUTHAMPTON

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**BEST AVAILABLE COPY**  
UYSON  
MINA

PRIORITY-DATA: 1998GB-0020024 (September 14, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1114343 A1	July 11, 2001	E	000	G02B006/12
GB 2341454 A	March 15, 2000		015	G02B006/13
WO 200016140 A1	March 23, 2000	E	000	G02B006/12
AU 9958754 A	April 3, 2000		000	G02B006/12

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 1114343A1	September 14, 1999	1999EP-0946340	
EP 1114343A1	September 14, 1999	1999WO-GB03055	
EP 1114343A1		WO 200016140	Based on
GB 2341454A	September 14, 1998	1998GB-0020024	
WO 200016140A1	September 14, 1999	1999WO-GB03055	
AU 9958754A	September 14, 1999	1999AU-0058754	
AU 9958754A		WO 200016140	Based on

INT-CL (IPC): G02 B 6/12; G02 B 6/13; G02 F 1/05; G02 F 1/37; G02 F 1/377; G02 F 1/39

ABSTRACTED-PUB-NO: GB 2341454A

BASIC-ABSTRACT:

NOVELTY - The waveguide comprises a directly bonded sandwich of a lamina of

periodically poled LiNbO<sub>3</sub> (PPLN) (10) between two laminas of LiTaO<sub>3</sub> (20).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the following: The method of manufacturing the described waveguide.

USE - For optical frequency doubling or parametric systems.

ADVANTAGE - Has greatly increases flexibility of use and allows the guiding path to be more tightly defined than in previous direct bonding arrangements.

DESCRIPTION OF DRAWING(S) - The drawing shows the waveguide.

PPLN lamina 10

LiTaO<sub>3</sub> laminas 20

CHOSEN-DRAWING: Dwg.1/6

TITLE-TERMS: OPTICAL WAVEGUIDE FREQUENCY DOUBLE PARAMETER SYSTEM COMPRISE BOND  
OPTICAL MATERIAL

DERWENT-CLASS: P81 V07

EPI-CODES: V07-F01A5A; V07-K04; V07-K10B1;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-155944